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(54) **Miniature microwave and millimeter wave tuner.**

(57) A miniature, electrostatically actuated stub tuner (10) is disclosed which is operable to dynamically tune a transmission line (16) in response to control signals. With the use of integrated circuit processing the transmission line (16) is fabricated on a substrate (12) and at least one stub tuner (50) is fabricated

over the substrate (12) and is movable relative to the transmission line (16) in response to electrostatic fields produced when the control signals are selectively applied to two rows of control electrodes (26a-26f, 28a-28f).

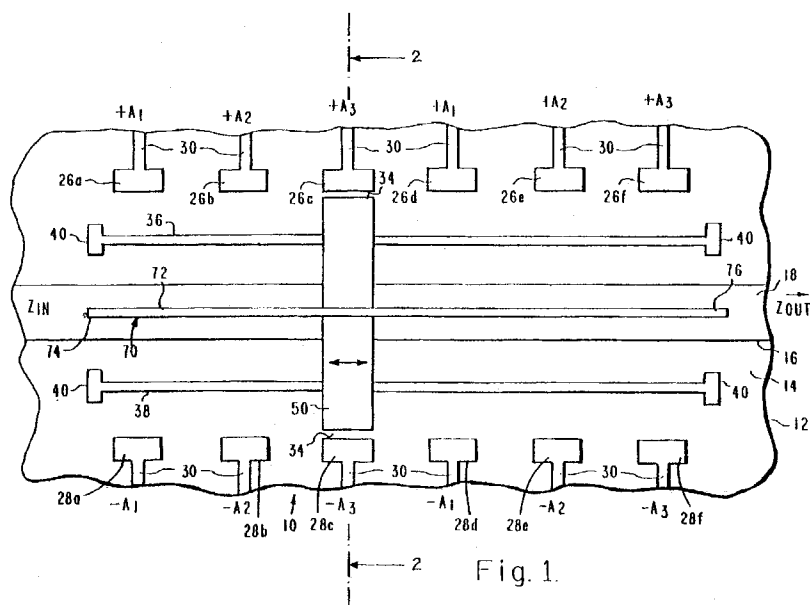


Fig. 1.



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EUROPEAN SEARCH REPORT

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EP 92109139.3

DOCUMENTS CONSIDERED TO BE RELEVANT			EP 92109139.3
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CL.5)
Y	US - A - 3 963 998 (RICHTER) * Figs. 1,2; abstract; claim 1 * --	1, 2, 3, 4, 9	H 01 P 3/08 H 01 P 1/24
P, Y	US - A - 5 043 043 (HOWE ET AL.) * Figs. 1A, 1B; abstract; claim 1 * --	1, 2, 3, 4, 9	
A, D	US - A - 4 754 185 (GABRIEL ET AL.) * Figs. 3-7; abstract; claim 1 * -----	1-4, 9	
			TECHNICAL FIELDS SEARCHED (Int. CL.5)
			H 01 P 3/00 H 01 P 1/00 H 02 N 7/00 H 01 L 21/00
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 05-04-1994	Examiner BERGER
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	